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                 and searchable
                A new search aid, the Company Name Thesaurus, available in
         JAN 27
NEWS
                CA/CAplus
                German (DE) application and patent publication number format
NEWS
     5
        FEB 05
                 changes
                MEDLINE and LMEDLINE reloaded
NEWS 6
        MAR 03
                MEDLINE file segment of TOXCENTER reloaded
NEWS 7
        MAR 03
NEWS 8 MAR 03 FRANCEPAT now available on STN
NEWS 9 MAR 29 Pharmaceutical Substances (PS) now available on STN
NEWS 10 MAR 29 WPIFV now available on STN
NEWS 11 MAR 29 No connect hour charges in WPIFV until May 1, 2004
NEWS 12 MAR 29 New monthly current-awareness alert (SDI) frequency in RAPRA
                PROMT: New display field available
NEWS 13 APR 26
                IFIPAT/IFIUDB/IFICDB: New super search and display field
NEWS 14
        APR 26
                 available
                LITALERT now available on STN
NEWS 15 APR 26
NEWS 16 APR 27 NLDB: New search and display fields available
NEWS EXPRESS MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT
             MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
              AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004
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FILE 'HOME' ENTERED AT 09:52:00 ON 30 APR 2004

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SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

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STRUCTURE FILE UPDATES: 28 APR 2004 HIGHEST RN 677701-51-8 DICTIONARY FILE UPDATES: 28 APR 2004 HIGHEST RN 677701-51-8

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

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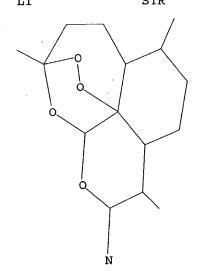
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

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L1 STRUCTURE UPLOADED

=> d L1 HAS NO ANSWERS L1 STR



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=> s l1 sss sam

SAMPLE SEARCH INITIATED 09:52:28 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED -

100.0% PROCESSED

3 ITERATIONS

BATCH

1 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

PROJECTED ITERATIONS:

\*\*COMPLETE\*\*

PROJECTED ANSWERS:

3 TO

1 TO 80

L2

1 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 09:52:32 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 85 TO ITERATE

100.0% PROCESSED

**85 ITERATIONS** 

34 ANSWERS

SEARCH TIME: 00.00.01

L3

34 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

155.42 155.63

FILE 'CAPLUS' ENTERED AT 09:52:35 ON 30 APR 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 30 Apr 2004 VOL 140 ISS 19 FILE LAST UPDATED: 29 Apr 2004 (20040429/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13 full

4 L3

=> d l4 1-4 ibib abs hitstr

ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN ACCESSION NUMBER: 2002:105791 CAPLUS

DOCUMENT NUMBER:

136:118602

TITLE:

Preparation of arteannuin derivatives containing

azacyclic radical

INVENTOR(S):

Li, Ying; Liao, Xibin

PATENT ASSIGNEE(S):

Shanghai Inst. of Pharmaceutics, Chinese Academy of

Sciences, Peop. Rep. China

SOURCE:

Faming Zhuanli Shenqing Gongkai Shuomingshu, 15 pp.

CODEN: CNXXEV

DOCUMENT TYPE:

Patent

LANGUAGE:

Chinese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KINI	DATE	APPLICATION NO.	DATE
CN 1296009	Α	20010523	CN 1999-124012	19991112
CN 1105722	В	20030416		
PRIORITY APPLN. INFO.	:	CN	1999-124012	19991112
OTHER SOURCE(S):		CASREACT 136:11860	2; MARPAT 136:11	8602
CT				

Me Me 
$$O-O$$
 Me  $O-O$  III

AΒ Compds. I, II, III (Het = triazole, benzotriazole, benzimidazole, indole, or their derivs. substituted by carboxyl, ester group, acyl, alkoxy, C1-3 alkyl, hydroxy, or hydroxymethyl; X = -OCO-, -OCH2-, -OCH2CH2-, -OCH2CH(OH)CH2-) are claimed. Title compound were synthesized by the condensation of either acetyldihydroarteannuin or (trichloroacetyl)dihydroarteannuin or methylenearteannuin or dihydroarteannuin or arteannuin 2-bromoethyl ether or arteannuin 2,3-epoxypropyl ether with nitrogen heterocyclic compound in the presence of acidic catalyst or alkaline compds or DCC, giving product with 12% to 61%

yield. Thus, dihydroarteannuin dissolved in methylenechloride, adding trifluoroacetic acid anhydrate, reacted under 0-5°, forming dihydroarteannuin trifluoroacetate, adding 1,2,4-triazole, using the TLC follow the reaction, after the workup, giving the triazole substituted dihydroarteannuin, with yield 12-20%. Title compds. are of antimalarial, antitumor, immunoregulatory, and anti-inflammatory activity.

IT 390800-25-6P 390800-26-7P 390800-31-4P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(prepn of arteannuin derivative containing azacyclic group)

RN 390800-25-6 CAPLUS

CN 1H-1,2,4-Triazole, 1-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 390800-26-7 CAPLUS

CN 4H-1,2,4-Triazole, 4-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 390800-31-4 CAPLUS

CN 2H-Benzotriazole, 2-[(3R,5aS,6R,8aS,9R,10S,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]- (9CI)

(CA INDEX NAME)

Absolute stereochemistry.

IT 390800-24-5P 390800-27-8P 390800-28-9P 390800-29-0P 390800-30-3P 390800-32-5P

390800-33-6P 390800-34-7P

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn of arteannuin derivative containing azacyclic group)

RN 390800-24-5 CAPLUS

CN 1H-1,2,4-Triazole, 1-[(3R,5aS,6R,8aS,9R,10S,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 390800-27-8 CAPLUS

CN 1H-Benzimidazole, 1-[(3R,5aS,6R,8aS,9R,10S,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]- (9CI) (CA INDEX NAME)

RN 390800-28-9 CAPLUS

CN 1H-Benzimidazole, 1-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 390800-29-0 CAPLUS

CN 1H-Benzotriazole, 1-[(3R,5aS,6R,8aS,9R,10S,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]- (9CI) (CA INDEX NAME)

RN 390800-30-3 CAPLUS

CN 1H-Benzotriazole, 1-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 390800-32-5 CAPLUS

CN 1H-Benzotriazole-6-carboxylic acid, 1-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]-, ethyl ester (9CI) (CA INDEX NAME)

RN 390800-33-6 CAPLUS

CN 1H-Benzotriazole-6-carboxylic acid, 1-[(3R,5aS,6R,8aS,9R,10S,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 390800-34-7 CAPLUS

CN 1H-Benzotriazole, 1-[(3R,5aS,6R,8aS,9R,10S,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]-6-methyl-(9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2000:68461 CAPLUS

DOCUMENT NUMBER:

132:108120

TITLE:

Preparation of artemisinin derivatives for use as

antitumor agents

INVENTOR(S):

Haynes, Richard Kingston; Chan, Ho-Wai; Lam, Wai-Lun;

Tsang, Hing-Wo; Hsiao, Wen-Luan

PATENT ASSIGNEE(S):

Hong Kong University of Science and Technology, Peop.

Rep. China; Wallace, Sheila Jane

SOURCE:

PCT Int. Appl., 152 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT	NO.	KIND	DATE		APP	LICATIO	ON NO.	DATE			
WO 2000	004026	A1	2000012	7	WO	1999-GI	32276	19990714			
W:	AE, AL,	AM, AT,	AU, AZ	BA,	BB, B	G, BR,	BY, CA	, CH, CN,	CU, CZ,		
	DE, DK,	EE, ES,	FI, GB	GD,	GE, G	H, GM,	HR, HU	, ID, IL,	IN, IS,		
	JP, KE,	KG, KP,	KR, KZ	LC,	LK, L	R, LS,	LT, LU	LV, MD,	MG, MK,		
	MN, MW,	MX, NO,	NZ, PL	PT,	RO, R	U, SD,	SE, SG	, SI, SK,	SL, TJ,		
								, AZ, BY,			
	MD, RU,	TJ, TM									
RW:	GH, GM,	KE, LS,	MW, SD	SL,	SZ, U	G, ZW,	AT, BE	CH, CY,	DE, DK,		
	ES, FI,	FR, GB,	GR, IE	IT,	LU, M	C, NL,	PT, SE	BF, BJ,	CF, CG,		
	CI, CM,	GA, GN,	GW, ML	MR,	NE, S	N, TD,	TG				
AU 9949	224	A1	20000207	7	AU	1999-49	9224	19990714			
EP 1095	043	A1	20010502	2	EP	1999-93	33049	19990714			
R:	AT, BE,	CH, DE,	DK, ES,	FR,	GB, G	R, IT,	LI, LU	NL, SE,	MC, PT,		
	IE, SI,	LT, LV,	FI, RO								
US 6649	647	B1	20031118	3	US	2002-74	13860	20020415			
PRIORITY APP	LN. INFO	. :		I	EP 199	8-30559	93 A	19980714			
				H	EP 199	8-30828	33 A	19981012			
				V	VO 199	9-GB227	76 W	19990714			
OTHER SOURCE GI	(S):	MAF	RPAT 132:	10812	20						

APT Artemisinin derivs. I [X = H, amino, alkyl, aryl; Y = H, OH, oxo, halogen, aryl, cycloalkyl, heteroaryl, amino, acyl, aryloxy, etc.; Z = O, imino], which containing a trioxane moiety and have cancer cell cytotoxicity, were prepared for use in the treatment of cancer. Some of these compds. comprise a ligand which is capable of binding to a nucleic acid and a group containing a trioxane moiety which is capable of acting as source of free radicals which are capable of chemical interacting with a nucleic acid. Thus, II was prepared in 50.5% yield by fluorination of  $10\xi$ -dihydroartemisinin using diethylaminosulfur trifluoride (DAST) in CH2Cl2. The prepared compds. were tested for cytotoxicity against R6 and R6T24 cancer cell lines.

IT 255730-17-7P 255730-31-5P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of artemisinin derivs. for use as antitumor agents)

RN 255730-17-7 CAPLUS

CN Thiomorpholine, 4-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 255730-31-5 CAPLUS
CN Piperazine, 1-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]-4-(phenylmethyl)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

IT 255730-18-8P 255730-33-7P 255730-47-3P 255730-49-5P 255730-50-8P 255730-58-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of artemisinin derivs. for use as antitumor agents)

RN 255730-18-8 CAPLUS

CN Thiomorpholine, 4-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]-, 1,1-dioxide (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 255730-33-7 CAPLUS

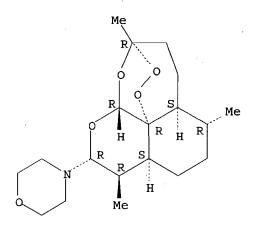
CN Piperazinium, 4-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]-1-methyl-1-(phenylmethyl)-, iodide (9CI) (CA INDEX NAME)

Ι÷

RN 255730-47-3 CAPLUS

CN Morpholine, 4-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 255730-49-5 CAPLUS

CN 1H-Indole, 1-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]-2,3-dihydro- (9CI) (CA INDEX NAME)

RN 255730-50-8 CAPLUS

CN Isoquinoline, 2-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]-1,2,3,4-tetrahydro-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 255730-58-6 CAPLUS

CN Piperazine, 1-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]-4-methyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2000:68459 CAPLUS

DOCUMENT NUMBER:

132:122783

TITLE:

synthesis and antiparasitic activity of artemisinin

derivatives (endoperoxides)

INVENTOR(S):

Haynes, Richard Kingston; Chan, Ho-Wai; Lam, Wai-Lun;

Tsang, Hing-Wo; Cheung, Man-Ki

PATENT ASSIGNEE(S):

The Hong Kong University of Science & Technology,

Peop. Rep. China

SOURCE:

PCT Int. Appl., 91 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAT	CENT	NO.			ND	DATE			A	PPLI	CATI	ON NO	0.	DATE			
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						KR,											
						NZ,											
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BR	9912	810		Α		2001	0502		B.	R 19	99-1	2810		1999	0714		
EP						2001											
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		ΙE,	SI,	FΙ,	RO												
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BG	1051	.37		Α		2001	0831		В	G 20	01-1	0513	7	2001	0110		

NO 2001000223 A 20010312 NO 2 PRIORITY APPLN. INFO.: EP 1998

Ι

NO 2001-223 20010112 EP 1998-305596 A 19980714

WO 1999-GB2267 W 19990714

OTHER SOURCE(S):

MARPAT 132:122783

GΙ

AB Synthesis of C10 substituted derivs. of artemisinin (I) [Y = halogen, (un) substituted cycloalkyl, (un) substituted aryl, (un) substituted C-linked heteroaryl, (un) substituted heterocyclylalkyl, NR1R2; R1 = H, (un) substituted alkyl, (un) substituted alkenyl, (un) substituted alkynyl; R2 = (un) substituted alkyl, (un) substituted alkenyl, (un) substituted alkynyl, (un) substituted cycloalkyl, (un) substituted aryl, (un) substituted araalkyl; R1R2 together with the N form (un) substituted heterocycle] or a salt thereof is disclosed. Thus, I (Y =  $\beta$ Ph) (II) is prepared by reaction of 10-(trimethylsiloxy) dihydroartemisinin with phenylmagnesium bromide and shows good in vitro activity against chloroquinone resistant strains. I are particularly effective in the treatment of malaria, neosporosis and coccidiosis.

IT 255730-17-7P 255730-31-5P

RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(synthesis and antiparasitic activity of artemisinin derivs. (endoperoxides))

RN 255730-17-7 CAPLUS

CN Thiomorpholine, 4-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]- (9CI) (CA INDEX NAME)

RN 255730-31-5 CAPLUS

CN Piperazine, 1-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]-4-(phenylmethyl)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

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255730-18-8P 255730-33-7P 255730-47-3P
IT
     255730-49-5P 255730-50-8P 255730-58-6P
     255912-96-0P 255912-97-1P 255912-98-2P
     255912-99-3P 255913-00-9P 255913-02-1P
     255913-03-2P 255913-04-3P 255913-05-4P
     255913-06-5P 255913-07-6P 255913-08-7P
     RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or
     effector, except adverse); BSU (Biological study, unclassified); SPN
     (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study);
     PREP (Preparation); USES (Uses)
        (synthesis and antiparasitic activity of artemisinin derivs.
        (endoperoxides))
     255730-18-8 CAPLUS
RN
     Thiomorpholine, 4-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-
CN
     trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]-,
     1,1-dioxide (9CI) (CA INDEX NAME)
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RN 255730-33-7 CAPLUS

CN Piperazinium, 4-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]-1-methyl-1-(phenylmethyl)-, iodide (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

• I -

RN 255730-47-3 CAPLUS

CN Morpholine, 4-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]- (9CI) (CA INDEX NAME)

RN 255730-49-5 CAPLUS

CN 1H-Indole, 1-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]-2,3-dihydro- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 255730-50-8 CAPLUS

CN Isoquinoline, 2-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]-1,2,3,4-tetrahydro-(9CI) (CA INDEX NAME)

255730-58-6 CAPLUS RN

Piperazine, 1-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-CN 3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]-4-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN

255912-96-0 CAPLUS
Piperazine, 1-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-CN3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]-4-phenyl- (9CI) (CA INDEX NAME)

RN 255912-97-1 CAPLUS

CN Piperazine, 1-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]-4-(2-methoxyphenyl)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 255912-98-2 CAPLUS

CN Piperazine, 1-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]-4-(4-fluorophenyl)-(9CI) (CA INDEX NAME)

RN 255912-99-3 CAPLUS

CN Piperazine, 1-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]-4-(2-pyridinyl)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 255913-00-9 CAPLUS

CN Piperazine, 1-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

RN 255913-02-1 CAPLUS

CN Pyrimidine, 2-[4-[(3R,5aS,6R,8aS,9R,10S,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]-1-piperazinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 255913-03-2 CAPLUS

CN Piperazine, 1-(4-chlorophenyl)-4-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]- (9CI) (CA INDEX NAME)

RN 255913-04-3 CAPLUS

CN Piperazine, 1-(3-chlorophenyl)-4-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 255913-05-4 CAPLUS

CN Piperazine, 1-(2-chlorophenyl)-4-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]- (9CI) (CA INDEX NAME)

RN 255913-06-5 CAPLUS

CN Piperazine, 1-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]-4-(4-methoxyphenyl)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

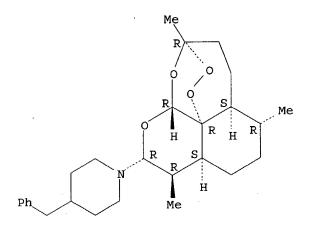
RN 255913-07-6 CAPLUS

CN Piperazine, 1-[(3R,5as,6R,8as,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]-4-(2-methylphenyl)-(9CI) (CA INDEX NAME)

RN 255913-08-7 CAPLUS

CN Piperidine, 1-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]-4-(phenylmethyl)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT:

14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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ACCESSION NUMBER:

1999:234337 CAPLUS

DOCUMENT NUMBER:

130:267461

TITLE:

Preparation of artemisin derivative containing phenyl

and heterocyclic radicals

INVENTOR(S):

Li, Yang; Yang, Yonghua; Liang, Jie; Shan, Feng; Wu,

Guangshao

PATENT ASSIGNEE(S):

Shanghai Inst. of Materia Medica, Chinese Academy of

Sciences, Peop. Rep. China

SOURCE:

Faming Zhuanli Shenqing Gongkai Shuomingshu, 17 pp.

CODEN: CNXXEV

DOCUMENT TYPE:

Patent

LANGUAGE:

Chinese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

APPLICATION NO. DATE PATENT NO. KIND DATE 19960522 CN 1994-113982 19941109 Α CN 1122806 20000216 В CN 1049435 PRIORITY APPLN. INFO .: CN 1994-113982 19941109 CASREACT 130:267461; MARPAT 130:267461 OTHER SOURCE(S): GT

Title artemisin derivs. [I; X = O, NH; R = Ph, R3 substituted Ph, 2 same AΒ or different R3 and R4 substituted Ph, the heterocyclic radical is alkali adenyl, thymine, cytimidine, uracil, and their R3 substituted groups, triazo-, and CONH2 or R3 substituted triazo-; R3 = R4 = hydroxy, alkoxy (C1-C4), alkyl (C1-C4), COOCH3, COOC2H5, NHCOCH3, nitro, halogen (F, Cl, Br, I), dihydrogen artemisin radical] are prepared by reaction of dihydrogen artemisin, dihydrogen artemisin acetate, dihydrogen artemisin trifluoroacetate, and anilines with R3 substituted groups, R3 or R3 and R4 substituted phenols, Ph compound, heterocyclic compound or its silicone ether derivs. in the presence of acidic catalyst, boron trifluoride etherate, SnCl4, TiCl4, trifluoroacetic acid, p-Me benzenesulfonic acid, trimethylsilyl triflate, H2SO4 and H3PO4 and polar solvent, alkyl halide, Et ether, acetonitrile, THF, pyridine, triethylamine, and methyl-sulfoxide at -10° to 40°. Phenylamino artemisin, 3-chloro-phenylamino artemisin, 4-artemisin, 3-nitro-phenoxy artemisin, 4- methoxy-phenoxy artemisin, 4-(methoxycarbonyl)-phenoxy artemisin, 4-acetamino-phenoxy artemisin, tris(artemisin) phloroglucin, 5- hydroxy-1,3-bis(artemisin) benzenediol, adenyl artemisin, 5- fluoro-uracil artemisin, 3-aminocarbonyl triazo artemisin, and 2,4- dimethoxyphenyl artemisin were prepared as antitumor, antiviral, and antiparasitic agents.

IT 221890-88-6P 221890-89-7P 221890-90-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation of artemisin derivs. as antibiotics and antitumor agents)

RN 221890-88-6 CAPLUS

CN 9H-Purin-6-amine, 9-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]- (9CI) (CA INDEX NAME)

RN 221890-89-7 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 5-fluoro-9-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 221890-90-0 CAPLUS

CN 1H-1,2,4-Triazole-3-carboxamide, 9-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]- (9CI) (CA INDEX NAME)